

03032-67 EWP(j)/EWP(k)/EWP(m)/T/EWP(s)/EWP(t)/STI IJP(c) RM/JD/HW  
ACC NR: AP6023067 (A) SOURCE CODE: UR/0191/66/000/004/0043/0046

AUTHOR: Gul', V. Ye.; Shenfil', L. Z.; Mel'nikova, G. K.; Maslennikova, N. L.

ORG: none

TITLE: Temperature dependence of electrical conductivity of films prepared from  
epoxy resin with metallic fillers 15 56 B

SOURCE: Plasticheskiye massy, no. 4, 1966, 43-46

TOPIC TAGS: electric conductance, electric property, epoxy plastic, filler, nickel,  
silver

ABSTRACT: The authors studied the specific volume resistivity ( $\rho_v$ ) of highly conducting epoxy films filled with dispersed metallic powders in relation to temperature. The experiments were made on ED-S epoxy resin samples, filled with 37 volume % Ni or 20.5 volume % molecular Ag, and hardened by diethylenetriamine for 5 hr. at 70°C. In Ni-filled samples, the thermal expansion of the polymer and its electrical conductivity decreased linearly with increasing temperature, up to the temperature of the glass (85-90°C). Above it, inflections occurred on the curves, which were more pronounced the higher the concentration of diethylenetriamine. After heating, the specific volume resistivity of the Ni-containing samples increased. The relative volume resistivity was higher for the samples containing smaller concentrations of diethylenetriamine.

UDC: 678.643'42'5+678.046.32.01 : 537.311

Card 1/2

L 03032-67

ACC NR: AP6023067

In contrast to the heating curves, the cooling curves of  $\log \frac{P_t}{P_0}$  vs temperature (where  $P_t$  and  $P_0$  are  $\rho$  at a temperature and at  $0^\circ\text{C}$ , respectively) did not have inflection points. Up to the transition temperature of the glass the thermal coefficient of the resistivity of the samples containing molecular Ag was positive and above this temperature it became negative. After a thermal treatment, the  $P_t/P_0$  ratio was smaller in all Ag-filled samples. The difference in the electric behavior of epoxy resins filled with Ni or Ag is explained by a difference in bonds present in these resins. The first has stronger metal-polymer and the second has stronger metal-metal bonds. The lower stability of Ni also adds to the difference in these properties. Orig. art. has: 4 fig.

SUB CODE: 20111 SUBM DATE: none/ ORIG REF: 016/ OTH REF: 002

Ms  
Card 2/2

L 04952-67 EWT(m)/AMP(j) MFP(c)... RM  
ACC'NR: AP6023394 (A)

SOURCE CODE: UR/0374/66/000/003/0350/0354

29  
B

AUTHOR: Gul', V. Ye., Ryabova, M. R.

ORG: Moscow Technological Institute of the Meat and Dairy Industry (Moskovskiy tekhnologicheskiy Institut myasnoy i molochnoy promyshlennosti)

TITLE: Study of two-dimensional deformation of polymers. Part 2: Effect of the magnitude of stretch on strength and deformation reversibility during heating of Eskaplen specimens

SOURCE: Mekhanika polimerov, no. 3, 1966, 350-354

TOPIC TAGS: synthetic rubber, material deformation

ABSTRACT: The effect of stretching along two mutually perpendicular axes on the strength and reversibility of deformation was studied on films of the synthetic rubber hydrochloride Eskaplen at 60°C. In two-dimensional deformation, the magnitude of shrinkage along one of the axes is determined by the deformation temperature, magnitude of deformation along the chosen axis, and temperature at which the shrinkage takes place. The magnitude of shrinkage during heating in the direction of one of the axes is independent of the deformation in the direction at right angles to it. The breaking strength of specimens subjected to two-dimensional stretching increases. The strength in each direction is determined by the magnitude of the previous stretching

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UDC: 678.01:53+678.742

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000617310011-1

L G4959-67

ACC NR: AP6023394

in this direction. Orig. art. has: 4 figures and 2 tables.

SUB CODE: 11/ SUBM DATE: 14Jun65/ QRS REF: 010/ OTH REF: 001

Card 2/2 Ah

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000617310011-1"

L 04625-67 EWT(1)/EWT(m)/EWP(j) IJP(c) RM

ACC NR: AP6032279

SOURCE CODE: UR/0020/66/170/002/0366/0368

46

45

70

AUTHOR: Gul', V. Ye.; Rogovaya, E. M.

ORG: none

TITLE: A new method for the electronmicroscopic study of the structure of films

SOURCE: AN SSSR. Doklady, v. 170, no. 2, 1966, 366-368

TOPIC TAGS: electron microscopy, surface tension

ABSTRACT: A new method has been suggested for the electronmicroscopic investigation of the structure of plastic films. The method of direct electronmicroscopic observation is applicable for model films which are approximately  $0.1 \mu$  thick, while industrially used films are from 25 to  $100 \mu$  thick. Structural differences are to be expected throughout such films due to surface tension during the process of preparation of the films and to molecular reactions which differ on the surface from those inside the film.

The new method consists of packing the films to be investigated into a  $15 \times 20$  mm stack held together with metal clamps. The stack is placed in a liquid monomer, e.g., methyl methacrylate or styrene and is polymerized to a solid transparent block (see Fig. 1). A notch is made with a file

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UDC: 539.216.2

L 04628-67

ACC NR: AP6032279

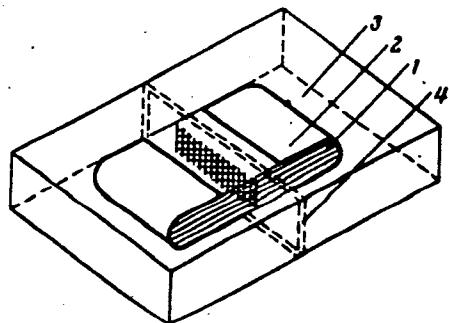


Fig. 1. Block for obtaining butt surfaces of a stack of film samples.

- 1 - Film stack;
- 2 - metal clamps;
- 3 - transparent plastic block;
- 4 - notch.

around the block to facilitate brittle rupture after cooling of the block in liquid nitrogen. The butt surface of the stack is spray-coated with carbon and shaded with palladium. The broken butt-surface of the films clearly reveals details of the inner structure. The material used in the present study — synthetic polyisoprene rubber <sup>b</sup> revealed a distinct picture of small (0.1 to 0.3  $\mu$ ) spherulites, which consisted of separate grains several hundred Å in size. This paper was presented by Academician V. A. Karginyy on 29 December 1965. Orig. art. has: 2 figures. [ATD PRESS: 5090-F]

SUB CODE: 20 / SUBM DATE: 08Dec66 / ORIG REF: 006 / OTH REF: 001

Card 2/2 JS

10228  
S/148/62/000/001/013/015  
E073/E535

AUTHORS: Starodubov, K.F., Gull Yu.P. and Siukhin, A.F.  
TITLE: Application of induction heating for producing high strength tubes with a clean surface  
PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Chernaya metallurgiya, no.1, 1962, 169-170

TEXT: The authors carried out experiments for the purpose of producing tubes, with high mechanical properties and a surface free from peeling-off scale, by means of induction heating (67 kc/s), applying a special cooling regime. The tubes, made of the steel 10un (10sp) were 40 mm in diameter, 360 mm long, the wall thickness was 1.5 mm and the heating speed was 600°C/sec. The heat treatment consisted of heating to 1000°C, quenching with water, by means of a special tangential sprayer with slot openings, down to 700-600°C and then in air. This heat treatment ensured decomposition of the austenite in the range of pearlitic transformation. As a result of these experiments, tubes with a clean surface and high mechanical and technological properties were obtained. The microstructure of the weld and of the near-weld zone did not

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Application of induction ...

S/148/62/000/001/013/015  
E073/E535

differ from that of the base metal. There are 1 figure, 1 table  
and 1 Soviet-bloc reference.

ASSOCIATION: Dnepropetrovskiy metallurgicheskiy institut  
(Dnepropetrovsk Metallurgical Institute)

SUBMITTED: February 15, 1961

Card 2/2

STARODUEOV, K.F.; BORKOVSKIY, Yu.A.; GUL', Yu.P.

Hardening of low-carbon steel from the rolling temperature. Izv.  
vys. ucheb. zav.; chern. met. no.2:109-113 '61. (MIRA 14:11)

1. Dnepropetrovskiy metallurgicheskiy institut.  
(Steel--Hardening)

STARODUBOV, K.F.; GUL', Yu.P.

Aging of low-carbon steel hardened from the austenitic range.  
Izv.vys.ucheb.zav.; chern.met. 5 no.6:103-112 '62. (MIRA 15:7)

1. Dnepropetrovskiy metallurgicheskiy institut.  
(Steel--Hardening)

STARODUBOV, K.F., akademik; GUL', Yu.P., inzh.

Tendency of oxygen-blown converter steel toward aging. Stal'  
22 no.2:159-160 F '62. (MIRA 15:2)

1. AN USSR (for Starodubob).  
(Bessemer process)  
(Steel—Hardening)

S/129/63/000/004/011/014  
A004/A127

AUTHORS: Starodubov, K.F., Borkovskiy, Yu.Z., Gul', Yu.P.

TITLE: The effect of the interval between the end of deformation and hardening on the structure and properties of steel

PERIODICAL: Metallovedeniye i termicheskaya obrabotka metallov, no. 4, 1963, 48 - 50

TEXT: The authors investigated the changes of properties and fine structure of grade 20 steel - 0.19% C, 0.57% Mn, 0.27% Si, 0.016% P and 0.018% S - depending on the time which passed between the termination of hot deformation and hardening of the specimens. In conformity with up-to-date conceptions of recrystallization processes after hot deformation, it was found that the periods corresponding to the processes of rest, origination of new grains and collective recrystallization can be sufficiently clearly fixed. To obtain stable results in hardening low-carbon steels by rolling heating, the time interval between termination of hot deformation and hardening should ensure sufficient rest and recrystallization, not leading to an

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The effect of the interval between ...

S/129/63/000/004/011/014  
A004/A127

extreme growth of grains. This time interval for the grade 20 steel should amount to 10 - 20 sec. There is 1 figure.

ASSOCIATION: Institut chernoy metallurgii AN USSR (Institute of Ferrous Metallurgy AS UkrSSR)

Card 2/2

GUL', Yu.P.; PASAL'SKIY, V.M.

Nature of coercive force changes during the aging of hardened low-carbon steel. Izv. vys. ucheb. zav.; chern. met. 6 no.10:101-104 '63. (MIRA 16:12)

1. Dnepropetrovskiy gosudarstvennyy universitet.

GUL', Yu.P.; KOZLOV, V.F.; PASAL'SKIY, V.M.

Changes in the properties of hardened, low-carbon steel  
during low-temperature tempering. Izv. vys. ucheb. zav.,  
chern. met. 7 no.8:142-148 '64. (MIRA 17:9)

1. Dnepropetrovskiy gosudarstvennyy universitet  
Dnepropetrovskiy metallurgicheskiy institut.

GUL', Yu.P.

Changes in the microhardness of ferrite during the aging of low-carbon steel. Izv.vys.ucheb.zav.; chern.met. 8 no.6:144-147 '65.  
(MIRA 18:8)

1. Dnepropetrovskiy metallurgicheskiy institut.

GUL', Yu.P.; MINYAYLOVSKIY, K.N.; PIKULINA, I.M.

Effect of thermal deformation on the properties of low-carbon  
steel. Izv. vys. ucheb. zav., chern. met. 8 no.10 s110-115 '65.  
(MIRA 18:9)

l. Kommunarskiy gornometallurgicheskiy institut i Dnepropetrovskiy  
metallurgicheskiy institut.

GULA

SURNAME, Given Names

Country: Czechoslovakia

Academic Degrees: /not given/

Affiliation: /not given/

Source: Prague, Veterinarstvi, Vol XI, No 5, 1961, page 197.

Data: "Signing of an Agreement Between Poland and Czechoslovakia  
on the Veterinary Aspect of the Imports, Exports, and Transit  
of Foodstuffs and Raw Materials of Animal Origin."

6PO 981643

GULA,

SURNAME, Given Names

Country:Cz echoslovakia

Academic Degrees: /not given/

Affiliation: /not given/

Source: Prague, Veterinarstvi, Vol XI, No 5, 1961, pages 197-198.

Data: "A Delegation of Veterinarians from Cuba in Czechoslovakia."

GPO 981643

L 24455-65 EWT(1)/EWA(b) Feb ASD-3

ACCESSION NR: AP4043561

S/0146/64/007/004/0054/0058

AUTHOR: Gula, I.; Gurevich, V. E.

TITLE: Current-pulse shaper-amplifiers

SOURCE: IVUZ. Priborostroyeniye, v. 7, no. 4, 1964, 54-58

TOPIC TAGS: pulse shaping device, shaper, transistorized shaper amplifier, storage unit, memory unit, computer access time, pulse shaper, computer, computer memory

ABSTRACT: The article describes two variants of transistorized, current-pulse, shaper-amplifiers designed for use in a magnetic memory unit with access time of the order of 1 usec. They provide current pulses with an amplitude of 0.5—0.6 a and a duration of 0.3 —0.8 usec, whose repetition frequency may be arbitrarily varied from 0 to 1 Mc. Output pulse rise time is of the order of 0.1—0.12 usec. Basic schematic diagrams of both the variants are shown in Figs. 1 and 2 of the Enclosure. Each contains 3 stages: an output stage using a P601 power transistor and two preamplifier stages using P402 transistors. A characteristic feature of both systems is that the output transistors operate within an active (amplifying) region of their current characteristics, without reaching saturation. The unsaturated mode was selected mainly to avoid the much larger input current ( $T_3$  base

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ACCESSION NR: AP4043561

2

current) which would be necessary for transistor saturation at the same load resistance and collector voltage. However, by operating the output stage in an unsaturated mode, the operating point position may vary with temperature, input signal amplitude, or on replacing the transistor. To stabilize the operating point, a nonlinear feed-back system through a D-219-type area junction microdiode ( $D_1$  in Fig. 1) or D-11-type point-junction diode (in Fig. 2) is used. The variant shown in Fig. 2 is distinguished by a transformer ( $T_{r1}$ ) in the emitter circuit of diode  $T_2$ , by means of which the second and third stages can be better matched to each other, and good thermal stability obtained. Orig. art. has: 3 figures.

ASSOCIATION: Leningradskiy elektrotekhnicheskiy institut im V. I. Ul'yanova (Lenina) (Leningrad Institute of Electrical Engineering); Chelyabinskiy politekhnicheskiy institut (Chelyabinsk Polytechnical Institute)

SUBMITTED: 18Dec63

ENCL: 02

SUB CODE: EC

NO REF Sov: 002

OTHER: 000

Card 2/4

L 24455-65  
ACCESSION NR: AP4043561

ENCLOSURE: 01

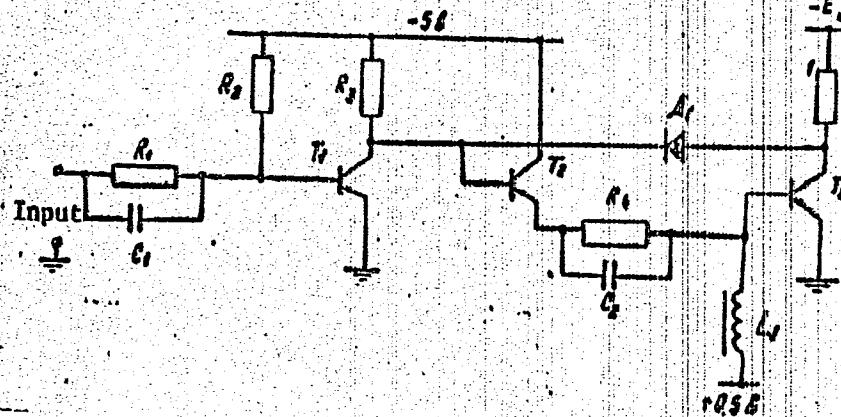


Fig. 1. Basic schematic of a shaper-amplifier (variant 1)

$T_1, T_2 = P402$ ;  $T_3 = P601$ ;  $D_1 = D219$ ;  $R_1 = 22$  kohm;  $R_2 = 33$  kohm;  
 $R_3 = 430$  ohm;  $R_4 = 68$  ohm (to be matched when tuning);  $C_1 = 47$  pf;  
 $C_2 = 3000$  pf (to be matched when tuning).

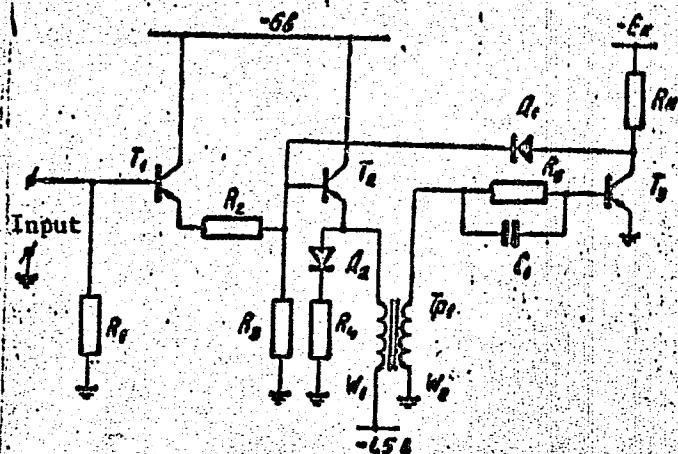
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L 24455-65  
ACCESSION NR: AP4043561

ENCLOSURE: 02

O

Fig. 2. Basic schematic of a shaper-amplifier (variant 2)



$T_1, T_2$  - P402;  $T_3$  - P601;  $D_1$  - D11;  
 $D_2$  - D9 or D11;  $R_1$  = 27 kohm;  
 $R_2$  = 1 kohm;  $R_3$  = 10 kohm;  $R_4$  = 62 (to be matched when tuning);  
 $C_1$  = 2700 pf (to be matched when tuning);  
 $Tr_1$  - primary winding;  
 $W_1$  = 30 loops, secondary  $W_2$  = 15 loops on an F-2000 core; core dimensions  $D \times d \times h = 10 \times 6 \times 5$  mm

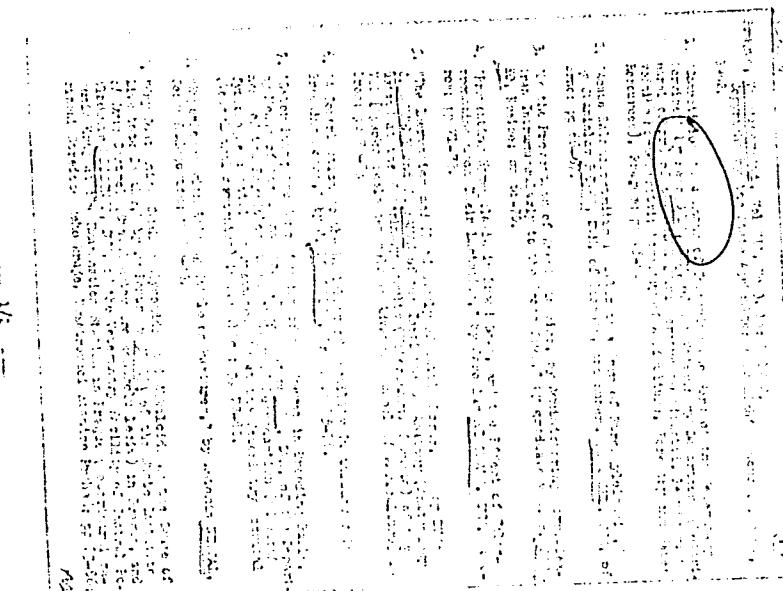
Card 4/4

GULA, Mieczyslaw, inz.

Works of the heavy industry machinery construction at a new  
stage. Przegl techn [84] no.44:1,4 4 N '62.

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000617310011-1

GULLA, P.



APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000617310011-1"

KRKOSKA, Pavol, inz.; GULA, Tibor, inz.; KOSIK, Martin, inz.

Addition of hemicelluloses in hot pulp refining. Papir  
a celulosa 18 no.12:239-240 D '63.

1. Katedra chemickej technologie dreva a chemickych vlaken,  
Slovenska vysoka skola technicka, Bratislava.

GULABOV, K.

"Correct breeding and feeding of lambs in agricultural cooperatives,"  
P. 29. (KOOPERATIVNO ZEMEDELIE, Vol. 10, No. 3, Mar. 1955, Sofiya,  
Bulgaria)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4,  
No. 6, June 1955, Uncl.

GULABOV, K.

" Farm for thoroughbred cattle in the village of Suvorovo", P. 31.  
(KOOPERATIVO ZEMEDALIE, Vol. 10, No. 3, Mar. 1955, Sofiya, Bulgaria)

SC: Monthly List of East European Accessions, (EEL), LC, Vol. 4,  
No. 6, June 1955, Uncl.

BRAILSKI, Kh.; GUIA

Effect of juices of fresh and dried cabbage on the secretory and motor functions of the stomach [with summary in English]. Vop. pit. 16 no. 4:19-26 Jl-Aug '57. (MLRA 10:10)

1. Iz kafedry bolezney zheludochno-kishechnogo trakta i lechebnogo pitaniya (zav. - prof. T.Tashov) Instituta sovershenstvovaniya vrachey Sofiya.

(VEGETABLES, effects,

cabbage juice, on gastric secretion & motor funct. (Rus))

(STOMACH, physiology,

motor funct., eff. of cabbage juice (Rus))

(GASTRIC JUICE,

secretion, eff. of cabbage juice (Rus))

GULABYAN, A.

Useful manual for builders (Cutting building costs" by V. A.Petrosian.  
Reviewed by A.Gulabian). Prom.Arm. 4 no.4:75-76 Ap '61.  
(MIRA 14:6)

1. Nachal'nik otdela industrializatsii, mekhanizatsii i ekonomiki  
stroitel'stva i promyshlennosti Gosstroya Armyanskoy SSR.  
(Construction industry--Costs)  
(Petrosian, V.A.)

ALDOBOLYI NAGY, Miklos, geographer; MTA-Cer., member, hydrologist, member

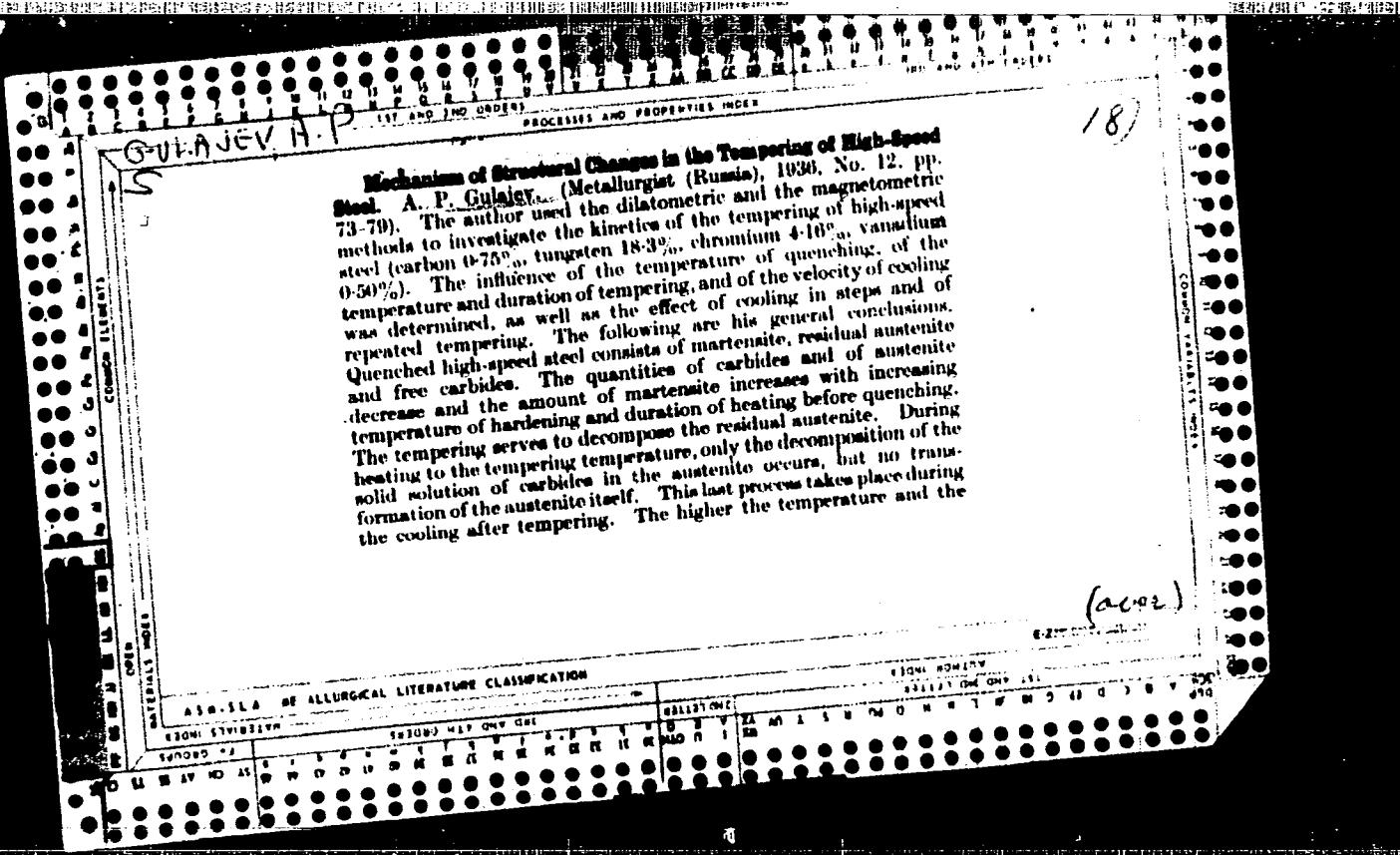
Thermal water utilization quantities in the southern part of the Great Hungarian Plain. Vizugyi Kozi no.2:200-227 '64.

1. Water Resources Directorate of the Lower Tisza Region, Szeged.

REMINICZKY, Karoly; KISS, Arpad, dr.; PESTA, Laszlo, dr.; MORIK, Jozsef, dr.; KPOS, Vilmos, dr.; SZABO, Lajos, dr.; BIRO, Zsigmond, dr.; GULACSY, Bela (Budapest); ROMAN, Istvan; GAJZAGO, Laszlo; NAGY, Imre; PINTER, Antal; VADASZ, Elemer, dr.; KONCZ, Istvan, dr.; PUTNOKI, Janos; JANCSO, T.; BAKAY, T.; MORY, B., dr.; VERES, L.; KASZO, L.; OSZTROVSZKI, Gyorgy, dr.

The first Hungarian aerosol conference. Epuletgepeszet 14 no.l:  
29.3.1965.

1. President, National Committee on Technical Development, Budapest (for Kiss). 2. Deputy Chairman, Budapest City Executive Committee (for Pesta). 3. National Institute of Public Health, Budapest (for Morik). 4. Public Health and Medical Clinic for Contagious Diseases, Budapest (for Kapos). 5. Public Health and Medical Clinic for Contagious Diseases, Pecs (for Szabo). 6. Public Health and Medical Clinic for Contagious Diseases, Misericordie (for Biro). 7. Kelenfold Heat Power Plant Enterprise, Budapest (for Roman). 8. National Meteorological Institute, Budapest (for Gajzago). 9. National Power Economy Authority, Budapest (for Pinter and Vadasz). 10. Research Institute of Heat Engineering, Budapest (for Koncz). 11. Research Institute of Heavy Chemical Industry (for Mory). 12. Fuel Trade Enterprise, Budapest (for Kaszo). 13. Deputy President, National Committee on Technical Development, Budapest (for Osztrovszki).



longer the duration of the tempering, the greater is the quantity of carbides set free, and the more effective is the austenite-martensite transformation in the following cooling process. The transformation begins, for instance, at 120° C. after 10 min. tempering at 600° (steel quenched from 1300°), at 195° after 1 hr. tempering, and at 280° after 3 hr. Slow cooling is not necessary for complete transformation. On the contrary, quick cooling gives greater stresses, and thus favours the austenite-martensite transformation. To achieve complete decomposition of the austenite, it is possible to use either one single prolonged tempering, or a series of shorter temperings. In the first case the martensite contains less carbides than in the second; the properties of the steels treated by these two methods are therefore different. All these results apply to steel quenched from 1100° or higher. At lower quenching temperatures (850-900° C.) the austenite contains but little dissolved carbides; on tempering it there is a transformation of the residual austenite and of the martensite into troostite, which occurs during the heating, in the interval 100-350° C. (In Russian).

GULAJEV, A. P.

TECHNOLOGY

PERIODICAL: HUNNIK, VOL. 25, no. 7/8, July/Aug. 1958.

GULAJEV, A. The influence of plastic deformation on the transformation in rustless austenitic steel. p. 237.

Monthly List of East European Accessions (EEAI) LC Vol. 8, No. 4, April, 1959, Unclass.

GULAK, N.

School for the foremen of "Zaporozhstal'." Prof.-tekh.  
ohr. 19 no.12:25-26 D '62. (MIRA 16:2)  
(Steelworkers--Education and training)

GULAK, S.S.

Nezhin incubators. Ptitsevodstvo 8 no.8:38 Ag '58. (MIRA 11:10)

1. Starshiy inzhener-mekhanik Chernigovskoy oblastnoy kontory  
inkubatorno-ptitsevodcheskoy stantsii.  
(Incubators)

GULAK, Ye.A., kapitan

The banner of Moscow for the winners of the competition. Vest.  
protivovozd.ober. no.10:60-64 0 '61. (MIRA 15:2)  
(Radar, Military)

GULAK, Yu.K.

Comments to the explanation of the propagation of a light wave  
around Nova Persei 1901. Astron.zhur. 37 no.4:686-689 JI-Ag  
'60. (MIRA 13:8)

1. Sumskiy gosudarstvennyy pedagogicheskiy institut im. A.S.  
Makarenko.  
(Stars, New)

LEVIN, B.Yu.; GULAK, Yu.K.; SKOROBOGAT'KO, A.F.; ZILMNTSOV, V.P.

A bright bolide. Priroda 44 no.4:86-87 Ap '55.  
(Meteors) (MIRA 8:4)

GULAK, Yu.K.

Absolute photometry of some planetary nebulae. Astron.tsirk. no.169:  
7-9 '56. (MLIA 9:10)

1.Sumskiy Pedagogicheskiy institut, Astronomicheskaya observatoriya  
Kiyevskogo universiteta.  
(Nebulae)

GULAK, Yu. K. • BEZKOSTNYY, I.D.

Observing the solar eclipse of June 30, 1954, in Nizhnovtsev,  
Poltava Province. Biul.VAGO no.20:51-54 '57. (MLRA 10:8)

1. Sunskiy gosudarstvennyy pedagogicheskiy institut.  
(Eclipses, Solar--1954)

Gulak, Yu. K.

33-4-2/19

AUTHOR: Gulak, Yu. K.

TITLE: Photometry of Images of Some Planetary Nebulae. (Fotometriya izobrazheniy nekotorykh planetarnykh tumannostey).

PERIODICAL: Astronomicheskiy Zhurnal, 1957, Vol.34, No.4,  
pp.516-524 (USSR)

ABSTRACT: One of the methods of studying planetary nebulae is through the absolute photometry of their monochromatic images. In this method one obtains the brightness distribution over the nebulae. Berman (Ref.2), Vorontsov-Velyaminov (Ref.1) and Brodskaya (Ref.3) have reported work of this nature. The present paper reports briefly on work carried out in 1952/1953 on photographic determination of absolute surface brightness and its distribution in images of planetary nebulae in nebular lines. The nebulae NGC6720, 7009, 7662, were investigated in this way. The photographs were taken at the main focus of the 40 cm refractor of the Abastuman Astrophysical Observatory using Ilford Zenith film and a green filter (effective wavelength 4690 Å; limits of sensitivity 4380 - 5100 Å). This system recorded mainly the emission of the nebulae in the nebular lines, the H<sub>β</sub> radiation having a very much smaller effect. Corrections for H<sub>β</sub> radiation for NGC 7009 and 7662 were found to be

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Photometry of Images of Some Planetary Nebulae.

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$0^m.19$  and  $0^m.12$ . The negatives were standardised by means of the formulae

$$M_o = m_s + 2.5 \lg \frac{\pi (d'')^2}{4} - 2.5 \lg \frac{b_o}{b_s} - 2.5 \lg R,$$

$$R = \frac{V_o}{P_o K_o T_o S_o} \cdot \frac{\int_0^\infty I_\lambda P_\lambda K_\lambda T_\lambda S_\lambda d\lambda}{\int_0^\infty I_\lambda V_\lambda d\lambda}$$

where  $M_o$  - brightness in stellar magnitudes per sq.sec.;  $m_s$  - visual magnitude of a standard star in one of the generally accepted photometric systems;  $d''$  - diameter of the disc of the star in seconds;  $b_o/b_s$  - ratio of visual brightnesses of the object and the standard in the photometric system used. The term  $2.5 \log R$  reduces  $b_o/b_s$  to the photometric system in which the brightness of the

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Photometry of Images of some Planetary Nebulae.

33-4-2/19

standard is expressed. The distributions of brightness obtained for the above three nebulae are shown in Figs. 1, 2 and 3 in the form of isophots.

(a) NGC 6720: The size of the photometered image was  $3.60 \times 3.20$  mm which, on the scale of the negative, corresponds to  $108'' \times 96''$ . The distribution of brightness is symmetric with respect to the major and minor axes of the image. The main bright ring is limited by two fairly regular concentric ellipses (lines  $18^m .18$  and  $20^m .18$ , Fig.1).

(b) GC 7009: The photometered size was  $1.00 \times 1.30$  mm corresponding to  $30'' \times 39''$ . A comparison of the isophots of the image in the line H<sub>δ</sub> (Ref.2) with isophots now reported confirms that the spatial distribution of radiating atoms of OIII is the same as the distribution of atoms of hydrogen. There is very little in common with isophots of the image in the lines  $3727 - 3729 \text{ \AA}$ . In the inner regions of the nebular image a uniform increase of brightness towards the centre is observed. It is suggested that it is possible that one deals here with two interpenetrating ellipsoidal clouds, the major axis of which are perpendicular to each other.

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Photometry of Images of some Planetary Nebulae.

33-4-2/19

(c) NGC 7662: The area photometered was 1.75 x 1.75 mm corresponding to 52".5 x 52".5. According to external appearance this nebula belongs to type III a + IV (Ref.1), i.e. on a circular disc with a complex non-uniform distribution of brightness is superimposed a ring formation. In the classification of Vorontsov-Velyaminov a part of the nebula is actually near to type IIa.

The structure of images of NGC 6720 and 7009 is very similar, which probably a result of a similar spatial distribution of absorbing matter.

The following values were obtained:

NGC	$m_{vis}$	$m_{neb}$
6720	8.78	8. <sup>m</sup> 99
7009	--	8. 12
7662	8.41	8. 58

where  $m_{vis}$  is the visual magnitude according to the data of Hopman (Ref.19) and  $m_{neb}$  the brightness of the nebulae in nebular lines in visual magnitudes according to the present determination.

Card 4/5

Photometry of Images of some Planetary Nebulae. 33-4-2/19

There are 3 figures, 5 tables and 19 references, 14 of which are Slavic.

SUBMITTED: August 17, 1956.

ASSOCIATION: Sumskiy State Pedagogical Institute. (Sumskiy Gosudarstvennyy Pedagogicheskiy Institut).

AVAILABLE: Library of Congress

Card 5/5

*GULAK, Yu.K.*

GULAK, Yu.K.

Spatial structure of some planetary nebulae [with summary in English].  
Astron. zhur. 34 no.6:827-837. K-D '57.: (MIRA 11:2)

1. Smyskiy gosudarstvennyy pedagogicheskiy institut im. A.S.  
Makarenko.

(Nebulae)

GULAK, Yu.K., Cand Phys-Math Sci--(diss) "Detailed photometry and spatial  
structure of planetary nebulae NGC 6720, 7009, and 7662. Sumy, 1980.  
11 pp (Min of Higher Education UkrSSR. Khar'kov Order of Labor Red Banner  
State U im A.M. Gor'kiy), 125 copies (KL,26-58,105)

- 8 -

68565

3.1500

SOV/32-59-11-8886

Translation from: Referativnyy zhurnal, Astronomiya i Geodeziya, 1959, Nr 11, p 28  
(USSR)

AUTHOR: Gulak, Yu.K.

TITLE: The Distribution of Luminosity in the Image of a Nebula of Constant Density

PERIODICAL: Byul. Vses. astron-geod. o-va, 1958, Nr 23, pp 31 - 35

ABSTRACT: The apparent distribution of luminosity in planetary nebulae has been quantitatively studied, under the assumption that the nebulae are of uniform densities, confined by spherical or ellipsoidal surfaces. It is supposed that the substance of the nebula is transparent to its own radiation. The following models have been studied: 1. The nebula is a layer, confined by two spheres. The isophotes are shaped like concentric circles. 2. The nebula is confined by surfaces of ellipsoids of the same eccentricity. Depending on the direction of the small axis of the ellipsoids, the isophotes appear as either circles or as concentric ellipses with the same eccentricity. The distribution of luminosity depends on the position of the nebula in space. The ratio

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30V/35-69-11-8836

The Distribution of Luminosity in the Image of a Nebula of Constant Density

of the luminosity in the center to the maximum luminosity is determined by the size of the inner region, and is a constant magnitude. 3. The nebula is confined from the outside by an ellipsoid, and on the inside by a sphere. The maximum luminosity along the large axis, exceeds the maximum luminosity along the small axis. The maxima of luminosities are spread in all directions, all equidistant from the center. 4. The nebula is confined by two ellipsoids, while the eccentricity of the inner ellipsoid is larger than the eccentricity of the outer one. The picture of isophotes will be like that of the preceding case. The region of heightened luminosity is spread along the small axis. It is noted that most of the particularities of the apparent luminosity distributions in nebulae can be explained by the examples already cited.

A.S. Sharov

X

Card 2/2

GULAK, Yu.K.; DOVGOBROD, I.Ya.

Taking pictures of celestial bodies. Fiz. v shkole 19 no.1:108-109  
Ja-F '59. (MIRA 12:3)

1. Pedagogicheskiy institut imeni N.V. Gogolya, g. Nezhin.  
(Astronomical photography)

GULAK, Yu.K.

Method of standardisation according to extrafocal stellar  
disks. TSir. KAO no.70:15-22 '61. (MIRA 16:6)

(Photometry, Astronomical)

KOKOREV, V.; KURNIN, D.; KARAVAYEV, S.; GROSSMAN, V.; GULAKOV, N.;  
SELETSKIY, F.; FESHIN, V.

It is sensible to combine all services into a shopping center.  
Sov. torg. 33 no. 9:14-16 S '60. (KIRA 14:2)

1. Nachal'nik Upravleniya tekhniki i kapital'nogo stroitel'stva Ministerstva torgovli RSFSR (for Kokorev).
2. Nachal'nik Upravleniya organizatsii torgovli Ministerstva torgovli RSFSR (for Kurnin).
3. Direktor Giprotorga (for Karavayev).
4. Glavnnyy spetsialist Giprotorga (for Grossman).
5. Starshiy ekonomist Upravleniya organizatsii torgovli Ministerstva torgovli RSFSR (for Gulakov).
6. Glavnnyy arkhitektor proyektov Giprotorga (for Seletskiy).
7. Rukovoditel' gruppy ekonomi ekonomiceskikh raschetov Giprotorga (for Feshin).

(Shopping centers)

L 10279-66 EWT(1)/EWA(h)

ACC NR: AP6000947

SOURCE CODE: UR/0286/65/000/022/0034/0034

INVENTOR: Poberezhskiy, Ye. S.; Gulekov, V. V.

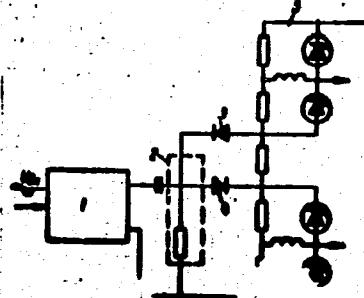
ORIG: none

TITLE: Phase shifter using tunnel diodes. Class 21, No. 176318 [announced by the  
S. M. Kirov Radio Plant (Radiozavod im. S. M. Kirova)]

SOURCE: Byulleten' izobretenij i tovarnykh znakov, no. 22, 1965, 34

TOPIC TAGS: phase shifter, tunnel diode

ABSTRACT: This Author Certificate proposes a phase shifter (see figure), which is based on tunnel diodes, containing a shaper, a differentiating circuit, pulse separation



Cord 1/2

UDC: 621.317.373

Fig. 1. Phase shifter using tunnel diodes

1 - Shaper; 2 - differentiating circuit;  
3 and 4 - pulse separation diodes; 5 and 6 - flip-flops using tunnel diodes.

L 10279-66

ACC NR: AP6000947

diodes, and two flip-flops. To simplify the system and assure stable phase shifting between the output voltages, the flip-flops are connected so that each of them is part of the load of the other. Orig. art. has: 1 figure. [JR]

SUB CODE: 09/ SUBM DATE: 21Jun65/ ATD PRESS: 44166

PC

Card 2/2

GULAKYAN, K.A.

Methods for the study of displacements in the depth of a  
landslide massif. Izv. AN Arm. SSR. Nauki o zem. 18 no. 3/4.  
37-48 '65. (MIR 18:9)

I. Institut geologicheskikh nauk AN Arzayanakoy SSR.

GULAMOV, A. G.

SMORODINTSEV, A. A., GULAMOV, A. G., and DROBYSHEVSKAYA, A. I. "The bacteriological properties of the upper respiratory tract in epidemic grippe and seasonal catarrhs", Voprosy med. virusologii, Issue 1, 1948, p. 130-52.

SO: U-3042, 11 March 53, (Letopis 'nykh Statey, No. 10, 1949).

GULAMOV, A.G.

Rapoport, R.S.; GULAMOV, A.G., CHAIKINA, O.M.

Data on virusologic and serologic study of influenza B. Trudy AMN  
SSSR 28:151-157 '53.

1. Iz Otdela virusologii Instituta eksperimental'noy meditsiny  
AMN SSSR.

(INFLUENZA,  
serol. & virusol. aspects)

GUIAMOV, A.G. (Tashkent)

Organization of medical education. Sov. zdrav. 18 no.514-16 '59.  
(MIRA 12:7)

1. Direktor Tashkentskogo meditsinskogo instituta.  
(EDUCATION, MEDICAL,  
in Russia, organiz. (Rus))

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R000617310011-1

DZHALILOV, K.N.; GULAMOV, Kh.A.

Performance of an imperfect well at different penetrations in  
heterogeneous (multilayer) beds. Izv. AN Azerb. SSR, Ser. fiz.-tekhn.  
i khim. nauk no.5:47-51 '58. (MIRA 12:1)  
(Oil wells)

APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R000617310011-1"

DZHALILOV, K.N., GULAMOV, Kh.A.

Unsteady infiltration of liquids and gases toward wells with  
incomplete penetration of nonhomogeneous formations. Dokl. AN  
Azerb. SSR 16 no.5:447-452 '60. (MIRA 13:8)

1. Azerbaydzhanskiy nauchno-issledovatel'skiy neftyanyoy institut Prede-  
tavleno akad. AN AzerbSSR Z.I. Khalilovym.  
(Oil reservoir engineering)

ABASOV, Mitat Teymur oglu; DZHALILOV, Kurban Nizameddin oglu; AZIZOVA, F.M.; ALIYEV, Z.S.; BABANLY, V.Yu.; GULAMOV, Kh.A.; IBRAGIMOV, M.R.; KAZIMOV, A.Sh.; KULIYEV, A.M.; SEMENOVA, I.I.; ROZENBERG, M.D., prof., doktor tekhn. nauk, red.; AL'TMAN, T.B., red. izd-va

[Problems of underground hydrodynamics and development of oil and gas fields] Voprosy podzemnoi gidrodinamiki i razrabotki neftianykh i gazovykh mestorozhdenii. Baku, Azerbaidzhanskoe gos. izd-vo neft. i nauchno-tekhn. lit-ry, 1960. 254 p. (MIRA 14:11)

1. Neftyanaya ekspeditsiya AN Azerbaydzhana (for Azizova, Aliyev, Babanly, Gulamov, Ibragimov, Kazimov, Kuliyev, Semenova).  
(Oil reservoir engineering)

M.-K. K

GULAMOV, ~~M.~~ K., Cand Agr Sci -- "Nature of the inheritance  
of the ~~cotton~~ plant's economic qualities, and the role of  
~~crossing in intervariety hybridization~~ <sup>of cotton</sup> and the participation of the maternal  
~~interbreeding~~ <sup>of cotton</sup> variety  
variety brand-plants." Tashkent, 1961. (Min of Agr UzSSR. Tash-  
kent Agr Inst) (KL, 8-61, 253)

- 360 -

GULAMOV, M.-K. K.; NARIMOV, S.; ATAZHANOV, M.A.; RYKHSTIKHODZHAYEV, T.

New cotton forms produced by ionizing radiation. Genetika no.5:  
127-134 N '65. (MIRA 19:1)

1. Sredneaziatskiy filial Vsesoyuznogo nauchno-issledovatel'skogo  
instituta po selektsii, genetike i semenovodstvu khlopchatnika.  
Submitted April 28, 1965.

GULAMOV, R.G.; ZAYKO, G.I.; ZOTOV, A.N.; ISADZHANOVA, Kh.K.; SOKOLOV,  
Yu.A.; SHKLOVER, A.Ya.; TSUKERMAN, M.P.; USTIMENKO, I.L., red.;  
BAKHRIYAROV, A., tekhn.red.

[Tashkent; concise reference book] Tashkent; kratkii spravochnik.  
Izd.2., dop. Tashkent, Gos.isd-vo Uzbekskoi SSR, 1958, 190 p.  
(MIRA 13:3)

(Tashkent--Guidebooks)

GULAMOV, R. G. ed.

Tashkent; kratkiy spravochnik-putevoditel'. Sost. Yu. A. Sokolov  
(1 dr.) Tashkent, Gos. Izd-vo Uzbedskoy SSR, 1957.  
184 p. illus. mat. 21 cm.

GULAMOV, T.G.

Calculating joint strains of arches and through superstructures.  
Izv. AN Uz. SSR. Ser. tekhn. nauk no. 2:71-81 '57. (MIRA 11:7)  
(Arches)

GOFMAN, Sh.M.; GULAMOV, T.G. (Tashkent)

Using the method of gradual equilibrium in calculating frames  
for stability. Stroi.mekh. i rasch.soor. 1 no.2:26-32 '59.  
(MIRA 12:4)  
(Structural frames)

GOFMAN, Sh.M ; GULAMOV, T.G. (Tashkent)

Using the method of successive equilibrations in designing  
frames for stability. Stroi.mekh.i rasch.soor. 1 no.5:46-50  
'59. (MIRA 13:1)  
(Structural frames)

GULAMOVA, L. M.

Dissertation: "Effect of the Water Content in the Organism of the Mulberry Silkworm on the Determination of Its Productivity." Cand Agr Sci, Tashkent Agricultural Inst, 24 Jun 54. (Pravda Vostoka, Tashkent, 8 Jun 54)

SO: SUM 318, 23 Dec 1954

L 13050-63

EWP(q)/EXT(m)/BDS AFITC/ASD JD

S/2927/62/000/000/0139/0141

ACCESSION NR: AIT3002996

AUTHOR: Gulamova, M. A.; Kogan, L. M.; Meskin, S. S.; Murygin, V. I.TITLE: Investigation of titanium-dioxide rectifiers acting as photodiodes  
[Report of the All-Union Conference on Semiconductor Devices held in Tashkent from  
2 to 7 October 1961]SOURCE: Elektronno-dy\*rochny\*ye perekhody\* v poluprovodnikakh. Tashkent, Izd-VO  
AN UzSSR, 1962, 139-141

TOPIC TAGS: titanium-dioxide rectifier, photodiode

ABSTRACT: Joint effect of light and applied voltage on a titanium-dioxide rectifier coated with a semitransparent Ag film was investigated. As a photo voltaic cell, such a rectifier had a sensitivity of 0.1 mca per lux, and its photo-emf was 100-200 mv at 10,000 lux. As a photodiode, it had higher reverse currents at all voltages up to 10v, and the light-determined addition to the dark current was found to increase with higher voltages; in some cases it was a few hundred times as high as the photovoltaic-cell current. Photocurrent-voltage curves for 20,000 and 50,000 lux, photocurrent-time (light-dark) curves for 25, 80, and 140C, and a spectral-sensitivity distribution curve are presented in the article. The photodiode effect in titanium-dioxide rectifiers is similar in some

Card 1/2

5-1  
5-1  
III

L 13050-63  
ACCESSION NR: AT3002996

respects to the negative photodiode effect in selenium photocells, the difference being that in the former the reverse current increases with illumination. This phenomenon is explained by deep-seated levels that tend to build up the space-charge concentration. Orig. art. has: 3 figures.

ASSOCIATION: Akademiya nauk SSSR (Academy of Sciences SSSR); Akademiya nauk Uzbekskoy SSR (Academy of Sciences UzSSR); Tashkentskiy gosudarstvennyy (Tashkent State University)

SUBMITTED: 00

DATE ACQ: 15May63 ENCL: 00

SUB CODE: 00

NO REF SOV: 008 OTHER: 000

Card 2/2

VAYNBERG, B. G.; CULAMOVA, V. P.; PEREKRESTOVY, Ye. P. OSTROVSKOY, S. G.

Uzbek Inst. of Epidemiology and Microbiology. (-1944-)

"On Efficiency of the Vaccine from the Mouse Lungs Against Typhus Exanthematicus prepared  
after Durand-Krontovskaya."

Zhur. Mikrobiol., Epidemiol., i Immunobiol., Nos. 7-8, 1944.

GULAMOVA, V. P.

USSR/Medicine - Virus Diseases

May 53

"Etiology of the Neurovirus Infection in Two-Stage Viral Meningoencephalitis,"  
A. A. Smorodintsev, A. I. Drobyshevskaya, V. P. Gulamova, V. I. II'yenko,  
L. V. Fedrochuk, Dept of Virology, Inst of Expl Med, Acad Med Sci USSR

Zhur Mikro, Epid, i Immun, No 5, pp 47-53

It has been shown that the causative factor of 2-stage meningoencephalitis is a neurotropic virus which resembles that of tick encephalitis. It is similar in its antigenic structure and reactions to the viruses of Western tick encephalitis and Scotch encephalitis, but can be distinguished from them by reason of its different action on white mice. Two-stage meningoencephalitis has nothing in common with listerellosis.

PA 253T13

GULAMOVA, V.P.

SMORODINTSEV, A.A.; ALEKSEYEV, B.P.; GULAMOVA, V.P.; DROBYSHEVSKAYA, A.I.;  
IL'YENKO, V.I.; KLENOV, K.N.; CHURILOVA, A.A.

Epidemiologic characteristics of biphasic virus meningo-encephalitis. Zhur.  
mikrobiol. epid. i imun. no.5:54-59 My '53. (MLRA 6:8)

1. Otdel virusologii Instituta eksperimental'noy meditsiny Akademii medi-  
tsinskikh nauk SSSR i tulyaremiynoy stantsii.  
(Brain--Inflammation) (Meningitis)

GULAMOVA, V. P.; KHODUKIN, N. I.; KHOZINSKIY, V. I.

"Experience in making cultures of the measles virus."

Report submitted at the 13th All-Union Congress of Hygienists,  
Epidemiologists and Infectionists. 1959

GULAN, Nikola

Methods of preparing standard dimensions for the post offices.  
PTT zbor 16 no.11:248-256 N '62.

GULAN, Nikola V.

Methods of determining the surface morms for the post, telegraph,  
and telephone buildings. PTZ Zajed 5 no.1:4-11 Ja-F '63.

GULAN, Nikola

A method of determining the number of teams for mobile postal service. PTT Zajed 6 no. 2:15-18 '64.

1. Member of the Board of Editors, "PTT; strucni casopis Zajednice jugoslovenskih posta, telegrafa i telefona".

GULAN, Nikola V.

Computing the standards for superficial dimensions of post-office inside premises. PTT Zajed 5 no.2:ll-14 Mr-Ap '63.

GULAN, Nikola V.

Principles of the development of a postal traffic network. PTT  
Zajed 6 no.4:6-13 Jl-Ag '64.

GULAN, Nikola V.

Determining the economic aspects of the mechanization of  
postal service. PTT Zajed ō no.5/6:24-28 S-D '64.

BRONIERSKA, Halina; GULANOWSKA, Helena; LOTWICKI, Wiktor; DR. S. ZO, Stefan

Effect of cervical cancer on the urinary system. Cinek, Pol.  
35 no.5:697-705 S-0 '64

1. Z I Kliniki Poloznictwa i Chorob Kobiecych Akademii Medycznej  
w Białymostku (Kierownik: prof. dr. med. S. Soszka).

GULANOWSKA, Helena; BRONIECKA, Halina; LOTOCKI, Wiktor; DZIESZKO, Waclaw.

The state of the urinary tract in the early follow-up period in cases of radium treated uterine cervix cancer. Ginek. Pol. 36 no.2:197-204 F '65

1. Z I Kliniki Poloznictwa i Chorob Kobiecych Akademii Medycznej w Białymstoku (Kierowr'k: prof. dr. med. S. Soszka) i ze Szpitala Wojewodzkiego imeni M.C. Skłodowskiej w Białymstoku (Dyrektor: dr. med. M. Doroszko).

SOSZKA, Stefan; KAZANOWSKA, Wanda; GULANOWSKA, Helena

Cytologic changes of cancer cells in blood and vaginal smears  
in the course of radiotherapy of uterine cervix cancer. Ginek.  
Pol. 36 no.10:1125-1131 O '65.

1. Z I Kliniki Położnictwa i Chorób Kobiecych AM w Białymostku  
(Kierownik: prof. dr. med. S. Soszka).

SOSZKA, Stefan; MUSIATOWICZ, Jozef; GULANOWSKA, Helena

Results of surgical and combined methods of the uterine cervix cancer treatment. Ginek. Pol. 36 no.10:1159-1164 0 '65.

1. Z I Kliniki Poloznictwa i Chorob Kobiecych AM w Białymstoku (Kierownik: prof. dr. med. S. Soszka), z II Kliniki Poloznictwa i Chorob Kobiecych AM w Białymstoku (Kierownik: doc. dr. med. J. Musiatowicz) i z Wojewódzkiego Ośrodka Onkologicznego w Białymstoku (Kierownik: lek. med. H. Gułanowska).

MUSIATOWICZ, Jozef; WROBLEWSKI, Marian; GULANOWSKA, Helena;  
SKRZYDLEWSKI, Zdzislaw

Thromboelastographic investigations in cases of the uterine  
cervix cancer. Ginek. Pol. 36 no.10:1113-1116 O '65.

1. Z II Kliniki Poloznictwa i Chorob Kobiecyh AM w Bialym-  
stoku (Kierownik: doc. dr. med. J. Musiatowicz).

GULANS, A.Ya., kandidat tekhnicheskikh nauk; KUVSHINOV, Ya.I., kandidat  
tekhnicheskikh nauk.

Dynamics and economy of operation of the KD-35 tractor on curves.  
Avt.i trakt.prom no.8:24-25 Ag '56. (MLRA 9:10)  
(Tractors)

GULANS, A.Ya., kandidat tekhnicheskikh nauk.

Determining indicated power and mechanical efficiency of engines.  
Avt.i trakt.prom.no.12:27-28 D '56. (MLRA 10:2)

1. Voronezhskiy sel'skokhozyaystvennyy institut.  
(Automobiles--Engines)

CIPE, Kalmans; GULANS, P., kand. ekon. nauk, red.; BIRZINA, L.,  
kand. jur. nauk; ZUMBERGA, M., red.; LEMBERGA, A., tekhn.  
red.

[Cash payment for the labor of collective farmers] Kolhoz-  
nieku darba samaksas nauda. Riga, Latvijas PSR Zinatnu  
Akademijas izdevnieciba, 1962. 94 p. (MIRA 16:5)  
(Latvija—Agricultural wages)

IL'INA, A.; GULAY, I.; L'VOV, M.; IROV, N.; MIRAYLOV, A.

U.S.S.R. at the International exhibitions. Vnesh. torg. 42  
no.9:36-39 '62. (MIRA 15:9)  
(Russia—Manufactures) (Europe—Exhibitions)

GULAY, O.G. [Hulai, O.H.], nauchnyy sotrudnik

Reconditioning the outlet surfaces of the lower end of a connecting  
rod. Mekh. sil'. hosp. 14 no.10:10-11 0 '63. (MIRA 17:2)

1. Ukrainskiy nauchno-issledovatel'skiy institut mekhanizatsii i  
elektrifikatsii sel'skogo khozyaystva.

AVAKYAN, A.V., kand.med.nauk; GULANYAN, K.A.

Late recurarization during the use of ditilin. Vest.khir. no.9:  
102-104 '61. (MIRA 15:3)

1. Iz khirurgicheskogo otdeleniya (zav. - A.V. Avakyan) rayonnoy  
bol'nitsy g. Alaverdi Armyanskoy SSSR.  
(ANESTHESIA—COMPLICATIONS AND SEQUELAE) (DITILIN)

BUDNIK, G.I., kand.ekon.nauk; AVDAKOV, Yu.K., dotsent, kand.ekon.nauk;  
SARYCHEV, V.G., kand.ekon.nauk; PREOBRAZHENSKIY, A.A., kand.  
istor.nauk; AVDAKOV, Yu.K., dotsent, kand.ekon.nauk; POLYANSKIY,  
F.Ye., prof., doktor istor.nauk; ZUTIS, Ya.Ya. [Zutis, J.];  
GULANYAN, Kh.G., prof., doktor ekon.nauk; GULANYAN, Kh.G., prof..  
doktor ekon.nauk; KONYAYEV, A.I., dotsent, kand.ekon.nauk;  
KHROMOV, P.A., prof., doktor ekon.nauk; SHALASHILIN, I.Ye., dotsent,  
kand.ekon.nauk; SHEMYAKIN, I.N., dotsent, kand.ekon.nauk; POGRE-  
BINSKIY, A.P., prof., doktor ekon.nauk; ORLOV, B.P., dotsent, kand.  
ekon.nauk; TYUSHEV, V.A., kand.ekon.nauk; BALASHOVA, A.V., kand.  
ekon.nauk; MOZHIN, V.P., kand.ekon.nauk; MINDAROV, A.T., dotsent,  
kand.ekon.nauk; SHIGALIN, G.I., prof., doktor ekon.nauk; GOLUBNI-  
CHIY, I.S., prof., doktor ekon.nauk; VOSKRESENSKAYA, T., red.;  
BAKOVETSKIY, O., mladshiy red.; MOSKVINA, R., tekhn.red.

[History of the national economy of the U.S.S.R.; lecture course]  
Istoriia narodnogo khoziaistva SSSR; kurs lektsii. Moskva, Izd-vo  
sotsial'no-ekon.lit-ry, 1960. 662 p. (MIRA 13:5)

1. Deystvitel'nyy chlen AN Latviyskoy SSR (for Zutis).  
(Russia--Economic conditions)

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[Expanded reproduction during the large-scale building of communism; for correspondence and evening school students]  
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Treating the seed in a 0.00001% soln. of the chemical for 48  
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creased yield. A soln. of 0.001% was injurious.

J. S. Joffe

Chem. & Botany

СОВЕТСКИЙ ГОСУДАРСТВЕННЫЙ УНИВЕРСИТЕТ

ПО СОВЕТСКОМУ АГРОНОМИЧЕСКОМУ ДЕЛУ

Институт по изучению влияния растительных гормонов на рост и развитие растений.

Институт по изучению влияния ростовых гормонов на рост и развитие растений.

(1951-1952)

Лаборатория гормонов растений Института.

(Является) (Гормоны растений)